8-16-05

PATENT COOPERATION TREATY

526, 265



PCT

Translation

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Ánnlingusta ann ann an	`							
Applicant's or agent's file reference 55400	FOR FURTHER ACTIO	RTHER ACTION See Notification of Transmittal of Intern Preliminary Examination Report (Form PCT/IPE						
International application No.	International filing date (da		Priority date (day/month/year)					
PCT/EP2003/009822 04 September 2		-	05 September 2002 (05.09.2002)					
International Patent Classification (IPC) or national classification and IPC B06B 1/16								
Applicant WACKER CONSTRUCTION EQUIPMENT AG								
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 								
2. This REPORT consists of a total of	5 sheets, inclu	ding this cover s	heet.					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a total of sheets.								
3. This report contains indications relating to the following items:								
I 🔀 Basis of the report								
II Priority								
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability								
IV Lack of unity of inve								
Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;								
VI Certain documents cited								
VII Certain defects in the	VII Certain defects in the international application							
VIII Certain observations on the international application								
		<u></u>						
Date of submission of the demand	Date	of completion of	f this report					
28 November 2003 (28.11.2003)		26 November 2004 (26.11.2004)						
Name and mailing address of the IPEA/EP	Auth	Authorized officer						
Facsimile No.		Telephone No.						

Form PCT/IPEA/409 (cover sheet) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2003/009822

I. Basis	s of the rep	port					
1. With	n regard to	the elements of the international applic	cation:*		-		
		mational application as originally filed	· · · · · · · · · · · · · · · · · · ·				
	the descr						
	pages	•	1, 3-8		!-!!}		
	pages		1, 5-0				
	pages _	2, 2a		, filed with the letter of	, filed with the demand 19 July 2004 (19.07.2004)		
	the clain			_, mod with the lener of _	19 July 2004 (15.07.2004)		
	the clain	•					
	pages _ pages				, as originally filed		
	pages _				er with any statement under Article 19		
	pages _	1-10			, filed with the demand		
	_			_, filed with the letter of _	17 November 2004 (17.11.2004)		
	the draw	ings:					
	pages _				, as originally filed		
	pages				, filed with the demand		
	pages			_, filed with the letter of _			
	the sequen	ce listing part of the description:					
	pages _				, as originally filed		
	pages _				, as originally filed, filed with the demand		
	pages			filed with the letter of	, filed with the demand		
Thes	th regard to the language, all the elements marked above were available or furnished to this Authority in the language in which international application was filed, unless otherwise indicated under this item. ese elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).						
	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international minary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.						
4	the the	ndments have resulted in the cancellation to description, pages					
5. 🗌	This report beyond the	rt has been established as if (some of) the disclosure as filed, as indicated in the	the amendme Supplements	ents had not been made, sind al Box (Rule 70.2(c)).**	nce they have been considered to go		
and 7	0.1 <i>1</i>).	eets which have been furnished to the r as "originally filed" and are not and	nexed to this	report since they do not	t contain amendments (Rule 70.16		
** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.							



International application No.
PCT/EP 03/09822

v.	Reasoned statement under Article 3 citations and explanations supporting	5(2) with regard to no ng such statement	velty, inventive step or industrial applica	bility;
1.	Statement			
	Novelty (N)	Claims	1-10	YES
		Claims		NO
	Inventive step (IS)	Claims	1-10	YES
		Claims	•	NO
	Industrial applicability (IA)	Claims	1-10	YES
		Claims		NO NO

2. Citations and explanations

Reference is made to the following documents:

D1: DE 10 95 752 B (LOSENHAUSENWERK) 22 December 1960

D2: DE 100 38 206 A (WACKER WERKE KG) 21 February 2002

The subject matter of the invention is a vibration generator for soil compacting devices (independent claim 1).

The closest prior art is document D2, which discloses (the references between parentheses refer to that document) a vibration generator for soil compacting devices, said generator comprising unbalance shafts (2, 3; paragraph [0020]) which are parallel to one another and can be driven in counter-rotation at the same rotational speed, each unbalance shaft (2, 3) bearing an unbalance mass (15) that is stationary on the shaft and an unbalance mass (16) that can rotate relative to the shaft, and each of the unbalance shafts (2, 3) being associated with an adjusting device (17, 18) for adjusting the position of each movable unbalance

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/EP 03/09822

mass (16) relative to the unbalance shaft (2, 3) on which it is borne (paragraph [0029]).

Document D1 does not disclose the characterising features of claim 1, namely that

- (a) the relative positions can be adjusted by the adjusting devices during operation such that centrifugal forces generated by the unbalance masses during rotation of the unbalance shafts are fully cancelled out in any position of rotation of the unbalance shafts; and that
- (b) it is possible to alter the relative positions such that the magnitude of a total centrifugal force resulting from the unbalance masses is proportional to an advancing speed of the soil compacting device.

The subject matter of claim 1 is thus novel (PCT Article 33(2)).

The problem addressed by the invention is that of optimising the soil compacting.

The problem is solved by features (a) and (b). As a result of these features, the soil compacting force can be set proportionally to the speed, the compacting being less forceful at low speeds and more forceful at high speeds. The total compacting is thus always approximately the same, thereby optimising soil compacting.

Document D1 does not disclose the characterising features of claim 1 and also does not disclose a vibration generator with which the relative positions can be adjusted during operation.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/EP 03/09822

Consequently, a combination of documents D2 and D1 would not lead a person skilled in the art to a vibration generator as per claim 1.

The solution to this problem as proposed in claim 1 of the present application thus involves an inventive step (PCT Article 33(3)).

Claims 2 to 10 are dependent on claim 1 and therefore likewise meet the PCT requirements for novelty and inventive step.